

EROSION AND SEDIMENT CONTROL NOTES

- THIS PLAN SHOWS EROSION AND SEDIMENT CONTROL MEASURES AND IS INTENDED TO PRESENT THE MINIMUM REQUIREMENTS FOR IMPLEMENTATION IN ORDER TO CONTROL AND MANAGE STORM WATER RUNOFF FROM THE SOLUTIA NITRO PROPERTY DURING CONSTRUCTION OF THE FINAL CAPS AND COVERS. THIS PLAN REPRESENTS THE MINIMUM BEST MANAGEMENT PRACTICES (BMPs) TO BE IMPLEMENTED AND MAINTAINED. OTHER BMPs SUCH AS THOSE DESCRIBED IN THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MANUAL (WWW/APPSPDF.MD/WWW/STORMWATER/BMP/INDEX.HTML) MAY BE ADDED TO ENHANCE THIS PLAN TO ACHIEVE THE EFFLUENT BENCHMARKS CONTAINED IN SOLUTIA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NUMBER W0118181.
- EROSION AND SEDIMENT CONTROL BMPs SHALL BE IMPLEMENTED PRIOR TO EARTHWORK (INCLUDING CLEARING AND GRUBBING) OPERATIONS DOWNGRADIENT OF WORK AREAS TO CONTROL STORMWATER RUNOFF DISCHARGES. THE EROSION AND SEDIMENT CONTROL PLAN SHOWS STABILIZED CONSTRUCTION ENTRANCES, SILT FENCE AROUND THE PERIMETER OF THE SITE (PERIMETER OF PROPOSED WORK AREAS), FLOATING TURBIDITY CURTAIN TO BE USED DURING RIVERBANK STABILIZATION ACTIVITIES, CONSTRUCTION OF SEDIMENT BASINS, ROCK CHECK DAMS FOR CHANNELS, AND EROSION CONTROL MATTING TO BE PLACED IN THE BOTTOM OF DRAINAGE SWALES AND CHANNELS.
- WORK LIMITS SHALL BE CLEARLY MARKED PRIOR TO BEGINNING CONSTRUCTION.
- NO SEDIMENT TRACKING ON PUBLIC ROADWAYS IS ALLOWED. IN THE EVENT THAT SEDIMENT IS INADVERTENTLY TRACKED ONTO PUBLIC ROADS, THE ROADS SHALL BE CLEANED THOROUGHLY BY THE END OF THE DAY. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AND STREET WASHING OF SEDIMENTS TO THE STORM DRAINAGE SYSTEM IS NOT ALLOWED. STREET WASH WASTEWATER CAN BE CONTROLLED FROM ENTERING THE STORM DRAINAGE SYSTEM, THEN IT SHALL BE PUMPED BACK ONTO THE SITE, CONTAINED, AND DISPOSED OF PROPERLY.
- SURFACE RUNOFF FROM DISTURBED AREAS SHALL PASS THROUGH THE CONSTRUCTED SEDIMENT BASINS PRIOR TO BEING DISCHARGED FROM THE SITE. SEDIMENT BASINS SHALL BE CONSTRUCTED AS ONE OF THE FIRST STEPS OF THE PROJECT. NOTE THAT LIMITED AREAS OF THE PROPERTY WILL NOT DRAIN TO THE SEDIMENT BASINS INCLUDING A PORTION OF THE WABCA PROPERTY (DRAINAGE SWALE AND SURROUNDING AREA) AND A PORTION OF THE WTA PROPERTY. THESE AREAS SHALL BE CONTROLLED BY THE USE OF SILT FENCE, SUPER SILT FENCE, GRAVEL BERM, OR OTHER BMPs.
- REFER TO THE TECHNICAL SPECIFICATIONS FOR OTHER REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL PLAN. PARTICULAR ATTENTION SHOULD BE DIRECTED TO SECTION 1000 - RIVER ARMORING, SECTION 1300 - SEEDING AND MULCHING, AND SECTION 1500 - STORMWATER RUNOFF AND WATER MANAGEMENT FOR EROSION AND SEDIMENT CONTROL REQUIREMENTS.
- GRADED AREAS THAT HAVE REACHED FINAL (FINISHED) GRADE SHALL BE SEED AND MULCHED WITHIN 7 DAYS OF THE GRADING WORK BEING COMPLETED. GRADED AREAS THAT WILL REMAIN INACTIVE FOR 21 DAYS OR MORE SHALL BE TEMPORARILY SEED AND MULCHED. LIME, FERTILIZER, SEED AND MULCH REQUIREMENTS ARE SPECIFIED IN SECTION 1300 - SEEDING AND MULCHING OF THE SPECIFICATIONS.
- EROSION CONTROL MATTING SHALL BE PROMPTLY INSTALLED IN ACCORDANCE WITH THE DRAWINGS IN DRAINAGE CHANNELS AND DRAINAGE SWALES TO STABILIZE THE SOIL SURFACES. CHANNELS AND SWALES SHALL BE SEED IMMEDIATELY PRIOR TO PLACEMENT OF EROSION CONTROL MATTING.
- DROP INLET PROTECTION SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF EACH DROP INLET AND DROP INLET PROTECTION CONTROL DEVICES SHALL BE MAINTAINED INCLUDING REMOVAL OF EXCESS ACCUMULATED SEDIMENT.
- TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL BMPs SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. MAINTENANCE AND REPAIR SHALL BE CONDUCTED IN ACCORDANCE WITH THE WEST VIRGINIA EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES MANUAL. SEDIMENT CONTROL BMPs SHALL BE INSPECTED WEEKLY OR AFTER EACH STORM OF 0.5 INCHES OR MORE.

WVABCA DRAINAGE SWALE SOIL COVER NOTES

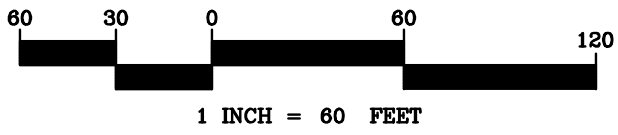
- CONTRACTOR SHALL EXCAVATE 18 INCHES OF EXISTING SOIL MATERIAL FROM THE DRAINAGE SWALE WORK AREA. EXCAVATED SOIL SHALL BE TRANSPORTED AND PLACED ON THE WABCA 3-ACRE WESTERN PARCEL WITHIN THE CONFINEMENT OF THE SOIL-BENTONITE SLURRY WALL. SOIL EXCAVATED FROM THE DRAINAGE SWALE WORK AREA SHALL BE USED TO FILL "LOW AREAS" AT THE LOCATIONS SHOWN ON THE DRAWINGS.
- CONTRACTOR SHALL TAKE CARE WHEN TRANSPORTING EXCAVATED SOIL FROM DRAINAGE SWALE TO THE AREA INSIDE OF THE SOIL-BENTONITE SLURRY WALL TO MINIMIZE IMPACTS TO THE SLURRY WALL, CLAY CAP AND BERM.
- UPON EXCAVATION AND REMOVAL OF THE SURFACE SOILS (18 INCH DEPTH), THE CONTRACTOR SHALL COVER THE DRAINAGE SWALE WORK AREA WITH ONE LAYER OF AN 8 OUNCES PER SQUARE YARD NONWOVEN GEOTEXTILE. GEOTEXTILES SHALL BE PLACED OVER THE SURFACE PREPARED TO BE AS SMOOTH AS POSSIBLE. GEOTEXTILES SHALL BE LAID AS WRINKLE FREE AS POSSIBLE. INDIVIDUAL PANELS OF GEOTEXTILE SHALL BE OVERLAPPED A MINIMUM OF 2 INCHES AND SEWN. GEOTEXTILE SHALL BE A NONWOVEN STYLE ENGINEERED FABRIC SUITABLE FOR SEPARATION AND SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

PARAMETER	TEST METHOD	VALUE (MIN)
WEIGHT (TYPICAL)	ASTM D5261	8.0 OZ/YD
GRAB TENSILE	ASTM D4632	205 LBS
GRAB ELONGATION	ASTM D4632	50%
AOS	ASTM D4571	80 U.S. SIEVE
TRAPEZOIDAL TEAR	ASTM D4533	85 LBS
- CONTRACTOR SHALL TEMPORARILY ANCHOR THE GEOTEXTILE USING SANDBAGS OR OTHER METHOD TO AVOID DISPLACEMENT OF THE GEOTEXTILE BY WIND, WATER, OR OTHER FORCES.
- CONTRACTOR SHALL SPREAD AN 18-INCH THICK LIFT OF SOIL (SOIL COVER) OVER THE GEOTEXTILE. SOIL SHALL BE PUMPED, SPREAD, AND PLACED IN SUCH A MANNER TO AVOID DAMAGE TO THE UNDERLYING GEOTEXTILE LAYER. SOIL SHALL BE DETERMINED TO BE "CLEAN" BASED ON ANALYTICAL TESTING WITH THE RESULTS REVIEWED AND APPROVED BY SOLUTIA INC. PRIOR TO USE AT THE SITE. SOIL SHALL MEET THE REQUIREMENTS OF SECTION 1400 - BORROW SOIL AS CONTAINED IN TECHNICAL SPECIFICATIONS NITRO, WEST VIRGINIA RCRA INTERIM MEASURES, SOIL-BENTONITE SLURRY WALL INSTALLATION DATED FEBRUARY 11, 2011.
- THE SURFACE OF THE 18-INCH THICK SOIL LAYER SHALL BE REVEGETATED IN ACCORDANCE WITH SECTION 1300 - SEEDING AND MULCHING AS CONTAINED IN TECHNICAL SPECIFICATIONS NITRO, WEST VIRGINIA RCRA INTERIM MEASURES, SOIL-BENTONITE SLURRY WALL INSTALLATION DATED FEBRUARY 11, 2011.
- THE CONTRACTOR SHALL PLACE EROSION CONTROL MATTING (ECM) IN THE DRAINAGE SWALE ALONG THE ALLOWWAY OF SURFACE RUNOFF. THE DRAWING SHOWS THE ANTICIPATED ALIGNMENT AND A TYPICAL SECTION OF THE SWALE AND ECM LENDING. ECM SHALL BE ANCHORED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS INCLUDING STAPLES AND ANCHOR TRENCHES. EROSION CONTROL MATTING SHALL BE NORTH AMERICAN GREEN P300 OR ENGINEER APPROVED EQUIVALENT.

LEGEND

- PROPOSED DROP INLET
- PROPOSED STORM DRAIN LINE (CPP)
- PROPOSED LIMIT OF PERMANENT PERMEABLE COVER
- PROPOSED LIMIT OF LOW PERMEABILITY COVER
- PROPOSED LIMIT OF PERMEABLE COVER
- PROPOSED CAP SYSTEM UNDERDRAIN
- PROPOSED GENERAL FILL SURFACE GRADE OR SUBGRADE
- EXISTING FENCE
- EXISTING GAS PIPELINE
- EXISTING GROUNDWATER MONITORING WELL
- PROPOSED RIVERBANK ARMORING RIPRAP
- PROPOSED SILT FENCE
- PROPOSED SUPER SILT FENCE
- PROPOSED DROP INLET PROTECTION
- PROPOSED FLOATING TURBIDITY CONTROL CURTAIN
- PROPOSED PIEZOMETERS
- PROPOSED GROUNDWATER MONITORING WELL
- PROPOSED PUMPING WELL
- RELOCATED GAS PIPELINE
- STONE SURFACED ACCESS ROAD
- VEGETATION

GRAPHIC SCALE



MAPPING REFERENCE:
BASE MAPPING SHOWN ON THIS DRAWING WAS PREPARED BY KEDDA AERIAL MAPPING BASED ON AERIAL PHOTOGRAPHY DATED FEBRUARY 22, 2012.

ISSUED FOR BIDDING 5-2-12

Revision

No.

Date

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

32

33

34

35

36

37

38

39

40

41

42

43

44

45

46

47

48

49

50

51

52

53

54

55

56

57

58

59

60

61

62

63

64

65

66

67

68

69

70

71

72

73

74

75

76

77

78

79

80

81

82

83

84

85

86

87

88

89

90

91

92

93

94

95

96

97

98

99

100

DESIGN

CAD File No.

Drawn

DMK

Checked

Approved

1"=60'

Scale:

APRIL 2012

Date:

01-0081-7000

Project No.

POTESTA & ASSOCIATES, INC.

1001 N. 10TH STREET, SUITE 200

ST. LOUIS, MISSOURI 63104

TEL: (314) 342-1400 FAX: (314) 343-0001

E-Mail Address: potesta@potesta.com

Client

SOLUTIA, INC.

ST. LOUIS, MISSOURI

THE EROSION AND SEDIMENT CONTROL PLAN

RCRA INTERIM MEASURES

CAPS AND COVERS CONTRACT

9

Drawing No.